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Cancel Claims 1-37 and 55,56

Amend Claims 38-54 and 57-66

38. (Currently Amended) A-method asserting to claim 35, characterised in that a method for connecting a first unit to so as a boo network comprising at least two units having different roles, the units being adepted to communicate according to the Bluetoott specification, the ad-hoo network comprising at least one piconet formed according to the Bluetooth specification, the roles of the units in the ad-hoc network comprising master and slave, the method comprising the states of:

the first unit establishing contact with at least one of the units of the ad hoc network and said at least one unit, in the establishment of contact, sending information in the first unit, the information including an indication of the role of said at least one unit the ed hoc networks

the first unit thereafter, based on said information, connecting to said at least one unit, the first unit thereby becoming connected to the ad her network:

wherein the stan of establishing contact, the first unit sends at least one INCUIR?

message and said at least one unit responds by sending an INQUIRY RESPONSE message computaing a Frequency Hop Synchronisation (FHS) packet, the FHS packet including information of the status of said at least one unit in the at least one visconet, the FHS packet further includes including information as to at least one of the following:

whether the responding unit is connected to at least one of said at least one piconet, whether the responding unit is a slave in at least one of said at least one piconet, whether the responding unit prefers to be a master or a slave after a subsequent PAGE procedure, the number of slaves in at least one of said at least one piconet, the BD_ADDR(a) of at least one master unit of said at least one piconet where the responding unit is a slave member, the clock value(s) of at least one master unit of said at least one piconet where the responding unit is a slave member, inter-piconet scheduling parameters of at least one unit that is connected to at least two piconets, the battery status of the responding unit, traffic parameters in at least one of the piconets or priority parameters.

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39. (Currently Amended) A method accepting to claim 35, characterised in that A method for connecting a first unit to an ad hoc network comprising at least two units having different roles, the units being adapted to communicate according to the Bluetooth anecification, the ad hop network comprising at least one picoust formed according to the Bluetooth specification, the roles of the units in the ad hoc universe comprising master and slave, the method comprising the store of:

the first unit catabilishing contact with at least one of the units of the ad hoc network and said at least one unit, in the establishment of contact, sending information to the first unit, the information including an indication of the role of said at least one unit in the ad hoc naturals.

the first unit themselver, based on said information, connecting to said in least one unit, the first unit thereby becoming connected to the ad boo network;

wherein the step of establishing contact, the first unit sends at least one INCUIRY

message and said at least one unit responds by scading an INOURY RESPONSE message comprising a Prequency Hop Synchronization (FHS) packet the FHS packet including information of the status of said at least one unit in the at least one piconet.

wherein the information is sucoded using at least one of two undefined bits in the FHS packet.

- 40. (Currently Amended) A method according to claim 39, characterized in that wherein one of said at least two undefined bits encodes whether the responding unit is a master of a pinonet.
- 41. (Currently Amended) A method according to claim 39, engaged in that wherein one of said at least two undefined bits encodes whether the responding unit is a slave in at least one plantlet.
- 42. (Currently Amended) A method according to distin 35, characterised in that A method for connecting a first unit to an ad hoc network comprising at least two units having different roles, the units being adapted to communicate according to the Binstooth specification, the ad hoc network comprising at least one piconet formed according to the Binstooth specification, the roles of the units in the ad hoc network comprising master and slave, the method commissing the steps of.

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the first unit establishing contact with at least one of the units of the ad hoc network and said at least one unit, in the establishment of contact, sending information to the first unit, the information including an indication of the role of said at least one unit in the ed hoc network:

the first unit thereafter, based on said information, connecting to said at least one unit, the first unit thereby becoming connected to the ad box network;

wherein the step of establishing contact, the first unit sends at least one INCURY message and said at least one unit responds by sanding an INOUIRY RESPONSE

manage temporalize a Processor Hum Synchronization (FHS) packet. The PRE protect including information of the attitue of sold at layer one unit in the releast one photoet schedul, the information is exceeded using the class of device field in the PHS packet.

43. (Currently Amended) Amended according to sicker 35, electrosteed in the America for concenting a first unit to on at the ingressive commission at least two noise begins different roles, the units being adversed to commission recording to the Bluescoth assocification, the ad has network commission at least one picture; formed according to the Bluescoth specification, the roles of the units in the ad into network commission master, and slave, the majori commission the state of:

the first unit aerublishing contact with at least one of the units of the action watered and said at least one unit in the establishment of occurred aerubing information to the first unit the information including so indication of the role of said at least one unit in the act boo network:

the first unit thereafter, based up said information, connecting to said at least one and, the first unit thereby becoming expected to the at how network.

whereto the sice of satisficture contact, the first and state one iNOURY measure and said at least one unit resonate by satisfic an INOURY RESPONSE measure commission of the state of said at least one will in the still not contact including information of the state of said at least one will in the still and one field in the FHS wherein the information is encoded using the an AM. ADDR field in the FHS packet.

44. (Currently Amended) A method according to obtain 43, characterised in that wherein the AM_ADDR field is used to encode whether the responding unit, when subsequently paged, will want to contact to the paging unit as a slave or a master.

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45. (Currently Amended) A method according to claim 35, observed seed in that A method for communicate affect we units being adapted to communicate appointing to the Hinstouth specification, the adino network comprising at least one piponet formed according to the Hinstouth specification, the adino network comprising at least one piponet formed according to the Hinstouth specification, the roles of the units in the adino network comprising matter and slave, the method comprising the steps of:

the first unit establishing contact with at least one of the units of the ad hoc network and said at least one unit in the retablishment of contact, sending information to the first unit, the information including an indication of the role of said at least one unit in the ad hoc network:

the first unit the reflect, based on said information, connecting to said at least one unit, the first unit thereby becoming connected to the ad hoc network;

wherein the step of establishing contact, the first unit sends at least one INOURY message and said at least one unit responds by sending an INOURY RESPONSE message comprising a Prequency Hop Synchronization (FHS) packet, the FHS packet including information of the status of said at least one unit in the at least one piconen.

wherein the information is encoded using a combination of the undefined bits, the Rolls of device field, and the an AM_ADDR field in the FHS packet.

46. (Currently Amended) A method according to claim 45, elementaries in that wherein the AM_ADDR is used to encode the number of active slave units in the piconet for which the responding unit is a master.

47. (Currently Amended) A method according to claim 35 A method for connecting a first unit to an aid has network commissing at least two units having different rules, the units being adapted to communicate according to the Bluetooth specification, the ad hos network comprising at least one pleanest formed according to the Bluetooth specification, the roles of the units in the ad hos network commission and aleve.

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the method pompetitive she stars of:

for the unit establishing content with a least one of the units of the ad hornativers and said at least one unit. In the matchildreness of content, conding information to the first unit, the information including an indication of the role of said at least one unit in the ad hop converts:

the first unit thereafter, based on sold information, companion to sold at least our unit the first unit thereine becoming compacted to the ad lone unitarity.

whereig the step of samiliabing contact the first unit used at least one inciting passage and said at least one well responds by sanding up incolling RESPONSE measure summerisher a Proquency How Sunchromisation (FRS) makest the FRS paskets incharacter infrapation of the status of said at least one unit in the at least one princip

wherein the responding unit is a slave in a phonest, characterised in the and, or invadin the first unit sends a PACE to the above indicating the first unit intent to study the at least one address (BD_ADDS) for the st legst one market for the slave and the slave sending a PACE RESPONCE massage containing the requested at least one BD_ADDS.

48. (Currently Amenical) A such of according to claim 47, characteristal in that wherein the PAGE RESPONSE includes at least one current clock value of said at least one master thing of the sesponding unit.

49. (Currently Amsociad) A method according to obtain 47, discontinuous that wherein the PAGE RESPONSE further includes information as to at least one of the followings whether the responding unit is a composited to at least one of said at least one piconet, whether the responding unit is a slave in at least one of said at least one piconet, whether the responding unit prefers to be a master or a place after a subsequent PAOB procedure, the number of starts as it least one piconet, the BD_ADDR(s) of at least one master unit of said at least one piconet where the

responding unit is a slave member, the clock value(s) of at least one master unit of said at least one piconet where the responding unit is a slave member, inter-pisonet scheduling parameters of at least one Hiustooth that is connected to at least two piconets, the battery status of the responding unit, traific parameters in at least one of the piconets or priority, parameters.

50. (Currently Amended) A mathod asserting to claim 35, characterized in that A method for connecting a first unit to an ad hos network comprising at least two units having different roles, the units being adapted to communicate according to the Bluetooth specification, the ad hos network comprising at least one piceost formed according to the Bluetooth specification, the roles of the units in the ad hos network comprising master and sleve, the method community the steps of:

the first unit establishing contact with at least one of the units of the ad hos network and said at least one unit, in the establishment of contact, sanding information to the first unit, the information including an indication of the role of said at least one unit in the ad boo network:

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the first unit thereafter, based on said information, connecting to said at least one unit, the first unit thereby becoming connected to the ad hoc network:

wherein the step of establishing contact the first unit sends at least one INOUIR! message and said at least one unit responds by sending an INOUIRY RESPONSE message comprising a Frequency Hon Synchronisation (FHS) packet, the FHS packet including information of the status of said at least one unit in the at least one piconet:

wherein the INQUIRY message contains a Decilosted Inquiry Access Code which is decilosted to, and will only be responded to, by one of the following:

- a unit being a slave unit in one and only one piconst,
- a unit being a slave unit in at least one piconet,
- a unit being a glave unit in more than one ploonet,
- a unit being a slave unit in one or more piconets, but a master unit in none,



- a unit being a slave unit in one or more piconets and a master unit in one piconet,
- a unit being a master unit in one piocnet, but a slave unit in none,
- a unit that is not connected to any piconet,
- a unit with low current traffic load, or
- a unit with high current traffic load.
- 51. (Currently Amended) A method according to claim 50, characterized in that wherein the INQUIRY message contains a Definated Inquiry Access Cods (DIAC) which is only responded to by master units.
- 52. (Currently Amended) A method according to the Bluetoeth specification and the address to comprise the with other according to the Bluetoeth specification and the address comprises at least one piecest formed according to the Bluetoeth specification, the roles of the units in the address actives a first unit to an address comprising at least two units having different roles, the units being adapted to comprising at least two units having different roles, the units being adapted to comprising at least one piecest formed according to the Bluetoeth specification, the roles of the units in the address network comprising master and slave, the method comprising the steps of:

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the first unit establishing contact with at least one of the units of the ad hos network and said at least one unit, in the establishment of contact sending information to the first unit, the information including an indication of the role of estid at least one unit in the ad hoc network;

the first unit thereafter, based on said information, connecting to said at least one unit the first unit thereby becoming connected to the ad hoc natwork:

wherein in the establishment of contact, the first unit sends at least one INQUIRY message and said at least one unit responds by sending an INQUIRY RESPONSE message comprising a Frequency Hop Synchronisation packet, the INQUIRY message

containing a Dedicated Inquiry Access Code which is only responded to by units having the role of master.

33. (Currently Amended) A method according to claim 38 in the case where the antin are adapted to communicate with other according to the Bluetoch specification and the of her network comprises at least one pionest formed according to the Bluetoch specification, the roles of the units in the od has not work comprising meeter and slave, characterized in that A method for connecting a first unit to an ad hoo network comprising at least two units having different roles, the units being adapted to communicate apporting to the Bluetoch specification, the ad hoc network comprising at least one piconet formed according to the Bluetoch specification, the roles of the units in the ad hoc network comprising to the Bluetoch specification, the roles of the units in the ad hoc network comprising master and slave, the method comprising the stens of:

the first unit establishing contact with at least one of the units of the ad hoc network and said at least one unit, in the establishment of contact, sending information to the first unit, the information including an indication of the role of said at least one unit in the ad hoc network:

the first unit thereafter, based on said information, connecting to said at least one unit, the first unit thereby becoming connected to the ad hop networks

wherein in the establishment of contact, the first unit sends at least one INQUIRY message and said at least one unit responds by sauding an INQUIRY RESPONSE message comprising a Frequency Hop Synchronization packet, the INQUIRY message containing a Dedicated Inquiry Access Code (DIAC) which is dedicated to, and is only be responded to, by one of the following:

- a unit being a slave unit in one and only one piccost,
- a unit being a slave unit in at least one piconet,
- a unit being a slave unit in more than one piconet,
- a unit being a clave unit in one or more piconets, but a master unit in none,
- a unit being a slave unit in one or more piconets and a master unit in one piconet,

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a unit being a master unit in one piconet, but a slave unit in none,

- a unit that is not connected to any piconet,
- a unit with low current traffic load, or
- a unit with high current treffic load.

54. (Currently Amended) A method according to claim 53, sharestnessed in their wherein the INQUIRY message contains a Dedicated Inquiry Access Code (DIAC) which is only responded to by master units.

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55. (Cancelled)

56. (Cancelled)

57. (Currently Amended) A mastel according to claim 56 in the once where A mathod for connecting a first unit to an ad hop network comprising at least two units, the at least two units having different roles, the units are heine adapted to communicate with other amending to the Hivetooth specification, and the ad hop network comprises comprising at least one piconet formed according to the Bluetooth specification, the roles of the units in the 4d hop network comprising master and slave and said at least one unit having the role of master, characterized in the the method comprising the steps of:

the first unit establishing contact with at least one of the units of the ad hoe natwork;

the first unit thereafter opposeting to said at least one unit, the first unit thereby becoming connected to the ad hop network:

wherein in the step of connecting, the first unit chooses or determines the roles of itself and of said at least one unit in the ad hop network formed after the first unit becoming connected;

Wherein in the step of connecting, a PAGE measure is sent from the first unit to

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entil at least one unit, thereafter a PACE RESPONDE message is sent from eatil at item one unit to the first unit, and finally a Frequency Hop Synchronisation (RES) peoket is sent from the first unit to said at least one unit, the FRE product including an indication that the first unit has determined to reverse the paging direction from said at least one unit to the first unit.

58. (Currently Amended) A method according to claim 57, characterized in the wherein the revenuel is performed by terminating the current PAGE procedure and initiating a new PAGE procedure from the master to the first unit.

59. (Contently Amended) A method according to claim 57, characterized in that phenoin the revenul is performed by the master Biretoch which receives the request for reversal sending an FSS peoked to the first unit with all FSS permeters set as if the sender is the peoked and the first unit responding with a peoked including only the first unit DAC, thereby concluding the reversal page procedure.

60. (Currently Amended) A method according to claim 17 wherein the paged unit does not accept the reversal of paging direction, characterised in that and return the paged unit responding to the PHE packet with a second PHE packet including the same indirection of request for reversal of paging direction and the first unit resolving this second PHE packet choosing to attend proceed with the PACE procedure without reversing or absorboning the PACE procedure.

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61. (Currently Amended) A method according to also 60, characterized in that wherein if the first unit chances to proceed with the PACE procedure it proceeds by restarting the PACE procedure by sending a new initial PACE message.

62. (Currently Amended) A method according to claim 60, sharacturised in that

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wherein if the first unit chooses to proceed with the PAGE procedure it proceeds by sending a third FHS message without an indication of request for reversal of paging direction.

- 63. (Correctly Amended) A computer program product directly loadable into the internal memory of a digital computer, comprising software code portions for performing the steps of the methods of or the methods performed by any black or davice according to claim 33-36 when the product is run on a computer.
- 64. (Currently Amended) A computer program product stored on a computer useble medium, computaing readable program means for causing a computer to control the execution of the steps of the methods performed by any block or device according to claim 933g.
- 65. (Currently Amended) A computer program product directly loadable into the internal memory of a digital computer, comprising software code portions for performing the steps of the methods of or the methods performed by any block or davice according to claim 66-57, when the product is run on a computer.
- 66. (Currently Amended) A computer program product stored on a computer usable modium, comprising readable program means for causing a computer to control the execution of the steps of the methods performed by any block or device according to claim 6657.